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Catalogue of type specimens of Phasmatodea (Insecta) deposited in the Staatliche Museum für Naturkunde in Stuttgart

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Abstract

A catalogue of all Phasmatodea type material lodged in the Staatliche Museum für Naturkunde in Stuttgart (SMNS) is provided (28 species: 10 described by Brunner v. Wattenwyl (1907), 2 by Hennemann, Conle & Brückner (1996a, 1996b), 1 by Hennemann, Gehler & Conle (1995a), 1 by Kevan (1955) and 14 by Redtenbacher (1906, 1908)). The taxa are listed alphabetically by species for each author along with the number of specimens, sex, locality and additional information if necessary. A few of the specimens, marked as types, are very doubtful to represent type material; their status is clarified. Some background information on the collection of the SMNS, important collectors and the type material is provided.

The type material of four taxa described by Brunner v. Wattenwyl (1907) and four taxa described by Redtenbacher (1908) from the SMNS could not be traced; it is listed separately. Lectotypes are designated for *Diardia battak* Redtenbacher, 1908 and *Ocnophila ornatissima* Brunner v. Wattenwyl, 1907. *Bacteria imitans* Redtenbacher, 1908 is found to be a junior synonym of *Phanocloidea muricata* (Burmeister, 1838).

Keywords: Phasmatodea, type material, Staatliches Museum für Naturkunde in Stuttgart, SMNS, lectotypes, new synonym.

Zusammenfassung

Die Phasmidensammlung des Staatlichen Museums für Naturkunde in Stuttgart (SMNS) beherbergt Typusmaterial von 28 Arten: 10 Arten beschrieben von Brunner v. Wattenwyl (1907), 2 von Hennemann, Conle & Brückner (1996a, 1996b), 1 von Hennemann, Gehler & Conle (1995a), 1 von Kevan (1955) und 14 von Redtenbacher (1906, 1908). Die Arten werden für jeden Autor alphabetisch aufgelistet. Außerdem werden die Anzahl der Exemplare, Geschlecht, Fundortdaten und, wenn notwendig, zusätzliche Informationen angegeben. Einige Exemplare sind nachträglich als „Typen" ausgezeichnet worden, stellen aber mit großer Sicherheit kein Typusmaterial dar. Die Identität dieser Exemplare wird geklärt. Allgemeines zur Sammlung des SMNS, die wichtigsten Sammler und die Herkunft des Typusmaterials werden in der Einleitung zusammengefasst.

Das Typusmaterial von jeweils vier von Brunner von Wattenwyl (1907) und Redtenbacher (1908) beschriebenen Arten konnte nicht aufgefunden werden und ist separat aufgelistet. Für *Diardia battak* Redtenbacher, 1908 und *Ocnophila ornatissima* Brunner v. Wattenwyl, 1907 werden Lectotypen designiert. *Bacteria imitans* Redtenbacher, 1908 stellt ein neues Synonym von *Phanocloidea muricata* (Burmeister, 1838) dar.

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1 Introduction

The Phasmid collection of the Staatliche Museum für Naturkunde in Stuttgart (SMNS) contains type material of 28 species. The majority represent types of taxa described by Carl Brunner v. Wattenwyl (1907) and Joseph Redtenbacher (1906, 1908). In addition there is type material of a species described by D. K. McE. Kevan (1955) from the "Deutsche Ostafrika Expedition" of E. Lindner in the early 1950s as well as three species, recently described by Hennemann, Conle & Brückner (1996a, 1996b) and Hennemann, Gehler & Conle (1995a). All types are housed with the main collection and most were subsequently marked with red "Typoid" or "Paratypoid" lables. These are however not very reliable as can be seen in three species, which are doubtful to represent type material (see chapter 3). A few type specimens of Brunner v. Wattenwyl and Redtenbacher were not marked as types and housed with the unidentified material. These could be identified by detailed investigation and comparison with the original descriptions. The type material is not predominantly from any particular region but numerous are from the Preangar Province of Java, collected by Hüpen in 1899.

The collection, housed in old wooden cabinet drawers, is arranged following Kirby's "A synonymic catalogue of Orthoptera" (1904). The non-type material is not very extensive but contains specimens from all over the world. It is clearly dominated by the large collections of P. Kibler from the Key Islands and Ambon in 1912. These include large series of several species e. g. 15 ♀♀ and 5 ♂♂ of *Phasma gigas* (Linné, 1758), 37 ♀♀ and 3 ♂♂ of *Anchiale maculata* (Olivier, 1792), 31 ♀♀ and 23 ♂♂ of *Platycrana viridana* (Olivier, 1792) and 158 ♀♀ and 7 ♂♂ of *Hermagoras foliopeda foliopeda* (Olivier, 1792). The series of the latter species shows a wide range of intraspecific variation, which has recently been analysed and published by Hennemann & Conle (1997). Additionally the collection contains some nice material from the Kinabalu Region, Borneo (Sabah) collected by Grubauer in 1912, and more recently several Phasmatodea collected by Riede and others in Ecuador in 1988 were included in the collection. This material was partly studied and published by Conle & Hennemann (2002), and a preliminary check-list of the type material has been published by Hennemann, Gehler & Conle (1995b).

Acronyms of depositories

BMNH	The Natural History Museum, London, England
FH	Private collection Frank H. Hennemann, Mainz, Germany
HNHM	Hungarian National History Museum, Budapest, Hungary
ISNB	Institut Royal des Sciences Naturelles, Brussels, Belgium
MCSN	Museo Civico di Storia Naturale "Giacomo Doria", Genua, Italy
MNHN	Museum d'Histoire naturelle, Paris, France
NHMW	Naturhistorisches Museum, Vienna, Austria
OC	Private collection Oscar V. Conle, Fischen, Germany

OZ	Private collection OLIVER ZOMPRO, Kiel, Germany
SMNS	Staatliches Museum für Naturkunde, Stuttgart, Germany
SMTD	Staatliches Museum für Tierkunde, Dresden, Germany
ZIP	Zoological Institute, St. Petersburg, Russia
ZMHB	Zoologisches Museum der Humboldt-Universität, Berlin, Germany
ZMUH	Zoologisches Museum der Universität Hamburg, Germany
ZSMC	Zoologische Staatssammlung, München, Germany

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2 List of type specimens

The following is a complete list of type material of Phasmatodea known to be deposited in the SMNS collection (up to January 2003). Names are listed alphabetically by species for each author. The names are as originally published and thus "ü" has not been changed to "ue". Illustrations are indicated in an abbreviated format, e.g. plate XIII, figures 6a and 6b is written as pl. 13: 6a, 6b. The data given are exactly as they are on the labels of the corresponding specimens.

The numbers of specimens in the determination list of BRUNNER v. WATTENWYL and REDTENBACHER are included with the data and are in cases of type series not listed separately. During the extensive research in numerous European museums these authors have used separate lists for the specimens examined which included an individual number and the scientific name which was in most cases assigned subsequently. Thus each specimen which has been examined by BRUNNER v. WATTENWYL and REDTENBACHER bears a label which includes a number and in some cases the scientific name as well (all in SMNS). Mostly, however, the determination list is lost or has been destroyed, as this is the case with SMNS. WEIDNER (1966: 226) discussed the disadvantages of using separate determination lists.

The number of the cabinet drawer in which the corresponding specimen is currently housed is included in square brackets at the end of the specimens' data, e.g. "[4]".

The current valid name is given for each species, based on published literature, as several species have subsequently been transferred to different genera or represent junior synonyms. For species which have not been mentioned in the literature since the publication of BRUNNER v. WATTENWYL's and REDTENBACHER's monograph (1906–1908), the valid genus generally remains the one to which it was assigned by these authors. If there is further type material present, the corresponding museums or institutions are listed as well.

Brunner v. Wattenwyl, C.

desiscens (*Zehntneria*), 1907: 233
Syntype, ♀: Zambesi 5321, 26 [4].

Also in NHMW (no. 438), but not mentioned by Brunner v. Wattenwyl. Brock (1998) lists a syntype ♀ from Zambesi, labelled "Museum Stuttgart".

laevissimus (*Bacunculus*), 1907: 336
Syntype, ♀: 5196, Ontario See, Canada, 92, 30. *Bacunculus laevissimus* Br. [5].

Should also be in NHMW, but not traced.

ornatissima (*Ocnophila*), 1907: 312
Lectotype [by present designation], ♀: 20, (Vulc. Usomet.), x20, *Libethra ornatissima* Br. [5].

Also in BMNH.

praetermissus (*Bacunculus*), 1907: 333
Syntype, ♂: 17, Guatemala, 17. *Bacunc. praetermissus* Br. [5].

Also in NHMW (Nr. 688) and BMNH. Valid name: *Pseudosermyle praetermissus* (Brunner v. Wattenwyl).

rarolobata (*Stheneboea*), 1907: 249
Holotype, ♀: 117, Ceylon, Dr. Dohrn 90, *Stheneboea rarlobata* Br., Ceylon, 117, *Stheneboea rarlobata* Br. [2].

Valid name: *Paraprisomera coronata* (Brunner v. Wattenwyl).

recedens (*Promachus*), 1907: 298
Syntype, ♀: 114, Mt. Yule, N-Neuguinea, 8178 *Promachus* n. sp., Mont. Yule N-Neuguinea [2].
Syntype, ♂: 112, *Promachus recedens* Br. [2].
Syntype, ♂: 115 [2].

Also in NHMW (no. 587) and ZMHB. Valid name: *Erinaceophasma recedens* (Brunner v. Wattenwyl).

strumosa (*Ocnophila*), 1907: 312
Holotype, ♀: 19, *Libethra strumosa* Br., Guatemala, 19. *Libethra strumosa* Br. [5].

vepres (*Promachus*), 1907: 298, pl. 13: 6a, 6b
Syntype, ♂: 8180, Mt. Yule, N-Neuguinea, 113, *Pr. vepres* Br. [2].

Also in NHMW (no. 589), MNHG, ZMUH and ZMHB. Valid name: *Erinaceophasma vepres* (Brunner v. Wattenwyl).

virgo (*Carausius*), 1907: 269
Syntype, ♂: Java occident. Pengalengan, 4000′, 1893, H. Fruhstorfer, 5537, 31. *Carausius virgo* Br. [1].

Also in NHMW (no. 502) and ISNB.

zambesica (*Leptinia*), 1907: 231
Syntype, ♂: 8586, Zambesi 5321, 23 [5].
Syntype, ♀: 29, Zambesi 5321, 22, Zambesi, *Clonaria zambesica* Br. [5].

Also in NHMW (no. 430). Valid name: *Leptynia zambesica* Brunner v. Wattenwyl.

HENNEMANN, F.H., CONLE, O.V. & BRÜCKNER, M.

heerwardeni (*Phaenopharos*), 1996b: 154
Paratypes, 2 ♂♂, 2 ♀♀: Thailand, ex Zucht: A. Gehler VIII.1995, *Phaenopharos herwaardeni* n. sp.

Also in BMNH, FH, NHMW, OC, OZ, ZMUH and ZMHB.

nigrolineata (*Dajaca*), 1996a: 332
Paratypes, ♂ and ♀: Myanmar, Tenasserim, leg. Lehmann 6. 1995, *Dajaca nigrolineata* n. sp.

Also in FH, NHMW, OC, ZMHB and ZSMC.

HENNEMANN, F.H., GEHLER, A. & CONLE, O.V.

quadrispinosa (*Parapachymorpha*), 1995a: 286
Paratypes, 4 ♀♀: Thailand, ex Zucht F. Hennemann, 5. 1995, *Parapachymorpha quadrispinosa* n. sp. [5].

Also in BMNH, FH, NHMW, OC, OZ, ZMHB and ZSMC.

KEVAN, D. K. MCE.

lindneri (*Gratidia*), 1955: 474
Holotype, ♂: Torina, 4.–18.III.1952, D. O. Afrika Exp., *Gratidia lindneri* n. sp., det. D.K. McE Kevan 1953, Type [4].
Allotype, ♀: Torina, 4.–18.III.1952, D. O. Afrika Exp., *Gratidia lindneri* n. sp., det. D.K. McE Kevan 1953, Allotype [4].

There is a further ♂ with the same data, which is however not a type.

REDTENBACHER, J.

aliena (*Acrophylla*), 1908: 456, pl. 22: 3, 3a
Syntypes, 2 ♂♂: N. Holland, nos. 60 and 61 [15].
Syntype, ♂: 58, N. Holland, 58. *Acrophylla aliena* Br. [15].

Also in NHMW (no. 869). The specimens are erroneously labelled "*Acrophylla titan* MacLeay". Valid name: *Ctenomorpha aliena* (Redtenbacher).

battak (*Diardia*), 1908: 486
Lectotype [by present designation], ♂: Java, Prov. Preangar, Hüpen 99, N. 1 *Asceles gracilimus* Br.
Paralectotype, ♂: Java, Prov. Preangar, Hüpen 99, N. 3.

Also in NHMW (no. 924). The series must have originally consisted of three specimens of which no. 2 is missing. One specimen bears a handwritten determination label of BRUNNER V. WATTENWYL, with the unpublished name "*Asceles gracilimus* Br.".

biceps (*Pharnacia*), 1908: 451
Syntype, ♀: Assam, 88. *Tirachoidea biceps* Redt., Type [19].

Also in NHMW (no. 861), ISNB, MNHN, ZIP, ZMHB and ZMUH.

discolor (*Diura*), 1908: 382
Syntype, ♀: C.Austr., v. Müll. 93, nos. 59, 74 *Diura discolor* Redt. [12].
Syntype, ♀: 59., Sydney, 59. *Diura discolour* [12].

Also in NHMW (no. 749) and MNHN. Valid name: *Didymuria violascens* (Leach, 1814).

fuscipennis (*Bactrododema*), 1908: 392, pl. 18: 4
Syntype, ♀: 69. Gabun, 69., *Palophus fuscipennis* Redt. (?= *minotaurus* Gerst.) [9].
Syntype, ♀: 69. B., Gabun [9].

Also in NHMW (no. 761) and MNHN (not traced). Valid name: *Dematobactron fuscipennis* (Redtenbacher).

guadeloupensis (*Clonistria*), 1908: 404
Syntype, ♂ (nymph): 16, Guatemala, 16. *Clonistria guadeloupensis* [6].

Also in NHMW (no. 784).

imitans (*Bacteria*), 1908: 419, **n. syn.**
Holotype, ♀: Surinam, 8, 8. *Fesaias imitans* [6].

The specimen bears a handwritten determination label of BRUNNER v. WATTENWYL with the unpublished generic name "*Fesaias*". Investigation and comparison with other material has shown this species to represent a junior synonym of *Phanocloidea muricata* (Burmeister, 1838).

inermis (*Hermarchus*), 1908: 448, pl. 21: 5, 5a
Syntype, ♂: 5536, Fidji Ins., 90 *Hermarchus inermis* Br. [15].

Also in NHMW (no. 852) and ZMUH.

marginale (*Paraphasma*), 1906: 115
Syntype, ♂: 23, 81., Rio de Janeiro 81. *Paraphasma marginale* Redt. [21].
Syntype, ♂: 106 [21].
Syntype, ♂: 105, *Paraphasma marginale* Redt. [21].

Also in NHMW (no. 175), MCSN, MNHN, SMTD and ZMUH.

nodulosa (*Bacteria*), 1908: 416
Paralectotype, ♂: 4. *Bostra nodulosa* Br., Surinam, 4. *Bostra nodulosa* Br. [6].

Also in NHMW (no. 805) and MNHN. Valid name: *Phanocloidea nodulosa* (Redtenbacher).

olivacea (*Monandroptera*), 1908: 389, pl. 18: 3a, 3b
Syntype, ♀: Ile Maurice 602.87, 51., Mauritius 57. *Monandroptera olivacea* Redt. [15].

REDTENBACHER (1908: 389) states "Mauritius" for the SMNS specimen. Also in NHMW (no. 756) and MNHN.

recessum (*Centema*), 1908: 490
Holotype, ♀: Java, Prov. Preangar, Vulk. Gedé, 99, *Cynara herbacea* Redt. Type.

Also in NHMW (no. 944). The specimen bears a handwritten determination label with the unpublished name "*Cynara herbacea* Redt. n. sp.". Valid name: *Centrophasma recessum* (Redtenbacher).

vosseleri (*Bacteria*), 1908: 419
Holotype, ♀: 52, Guatemala, 52 *Phanocles vosseleri* Br. [6].

Valid name: *Phanocles vosseleri* (Redtenbacher).

wülfingi (*Vetilia*), 1908: 464, pl. 23: 1
Syntype, ♀: 33, Victoria, 33. *Vetilia wülfingi* [18].

Also in NHMW (no. 877) and ZMUH. The ZMUH ♀ was erroneously listed as the "holotype" by WEIDNER (1966: 232). Valid name: *Acrophylla wuelfingi* (Redtenbacher).

3 Doubtful material

bistriolata (*Aruanoidea*), 1908: 528
? Syntypes, ♀, 2 ♂♂: Java, Prov. Preangar, Hüpen 99, nos. 9, 10, 12 [10].
? Syntypes, ♀, ♂: Java, Prov. Preangar Vulk. Gedé, Hüpen 99, nos. 8 and 11 [10].

Also in NHMW (no. 1046), MCSN and ZMHB. Not mentioned from SMNS by Redtenbacher. The red labels stating "Paratypoid" were attached to the specimens after publication of the species by Redtenbacher (1908: 528). Thus they are very unlikely to represent types. Valid name: *Necroscia punctata* (Gray, 1835).

extoris (*Dixippus*), in litt.
1 ♀: Java, Prov. Preangar, Hüpen 99, 19, *Dixippus extoris* Br. Type [1].

Comparison has proven the specimen to represent a female of *Carausius strumosus* Stål, 1875.

normalis (*Sipyloidea*), 1908: 547
? Syntype, ♂: Java, Prov. Preangar, Hüpen 99, 13. *Sipyloidea normalis* Br. [10].

Also in NHMW (no. 1109), HNHM (destroyed by fire), ZMUH and ZMHB. Not mentionened from SMNS by Redtenbacher. The red label stating "Paratypoid" was attached to the specimen after publication of the species by Redtenbacher (1908: 528). Thus it is very unlikely to represent a type.

serrulatus (*Clitumnus*), 1907: 190, pl. 7: 3a, 3b
? Syntypes, 4 ♂♂: Java, 96, nos. 96–99 [4].

Not mentioned from SMNS by Brunner v. Wattenwyl. The red label stating "Paratypoid" was attached to the specimen after publication of the species by Brunner v. Wattenwyl (1907: 190). Thus it is very unlikely to represent a type. Valid name: *Ramulus serrulatus* (Brunner v. Wattenwyl).

4 Not traced

Even after extensive research and investigation of the collection on four occasions (1995, 1996, 1998, 2003) type material of eight species described by Brunner v. Wattenwyl (1907) and Redtenbacher (1906, 1908) and recorded from SMNS could not be traced. The species concerned are listed below and may eventually be traced in other museum collections (locality given in brackets):

Brunner v. Wattenwyl, C.

appetens (*Dixippus*), 1907: 281; (Java, Province Preangar).
frustans (*Cuniculina*), 1907: 200; (Mercara, India).
mancus (*Carausius*), 1907: 270; (India, Province Coong).
pictus (*Bacunculus*), 1907: 333; (Guatemala).

Redtenbacher, J.

ingenua (*Aruanoidea*), 1908: 522; (Sumatra, Padang).
magnifica (*Bostra*), 1908: 410; (Central Brazil).
pan (*Bacteria*), 1908: 420; (Guyana).
stigmata (*Sipyloidea*), 1908: 546; (Mercara, India).

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